



# 42nd IUPAC CONGRESS Chemistry Solutions

2–7 August 2009 | SECC | Glasgow | Scotland | UK

**Theme:** Analysis & Detection  
**Symposium:** Astrochemistry

**Convener:**

Helen Fraser,  
*University of Strathclyde, Glasgow, UK*

**Keynote Speakers:**

Eric Herbst, *The Ohio State University, USA*

Ewine van Dishoeck, *Leiden University, The Netherlands*

Bruce Kay, *Pacific Northwest National Laboratory, USA*

David Clary, *University of Oxford, UK*

Stephen Leone, *University of California, Berkeley and Lawrence Berkeley National Laboratory, USA*

2009 is the International Year of Astronomy, thus is a very appropriate time to bring Astrochemistry (the science that combines chemistry and astronomy) to the wider chemical research audience.

The field holds huge potential to chemists as a place where their science can evolve, cross boundaries and to strike up new collaborations and applications. Work on doubly charged ions, combustion chemistry, nano-particle catalysis and condensed matter all has a bearing on the chemistry of star and planet formation and the potential for extraterrestrial life.

Astronomers require detailed data on atomic and molecular spectra and use the chemical evolution of astronomical objects as a 'clock', and such applications require detailed understanding of chemical reactions, rates, branching, and of chemical processes occurring in 'extreme' extraterrestrial conditions.

Research in Astrochemistry encompasses a wide range of chemical physics fields, from direct molecular detection and laboratory spectroscopy, through non-Arrhenius behaviour in neutral-neutral reactions at low pressures and temperatures in the gas phase, to surface chemistry, involving electron and photon induced surface processes as well as studies of surface reactivity and desorption at low temperatures.

**Submit an abstract**

To submit an abstract for oral or poster presentation please visit [www.iupac2009.org](http://www.iupac2009.org).

**Deadlines**

Oral presentation abstract: **16 January 2009**

Poster presentation abstract: **5 June 2009**

Early bird registration: **5 June 2009**

Standard registration: **3 July 2009**

